REGD. GOA - 5

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Panaji, 5th December, 1991 (Agrahayana 14, 1913) SERIES I No. 36

OFFICIAL GAZETTE

GOVERNMENT OF GOA

NOTE: — There is one Extraordinary issue to the Official Gazette, Series I No. 35 dated 28-11-1991 with the date 29-11-91 from pgs. 405 to 406 regarding Notifications from Law (Legal and Legislative Affairs) Department.

GOVERNMENT OF GOA

Irrigation Department

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Corrigendum

3/25-8/91-IRRG (i)

The rates of fee for fresh registration and renewal of registration of contractors to be done in the Irrigation Department in Irrigation and Hydraulics Works Category vide Corrigendum No. 3/25-8/91--IRRG (ii) dated 26th November, 1991 shall be the same as the rates prescribed in Notification No. 7/10-5/89-PW&UD dated 20-4-1991. All other conditions contained in the said Notification are also applicable for registration in Irrigation Department in the said category except that the words "Office of the Chief Engineer, P.W.D., Altinho, Panaji" and "Chief Engineer, P.W.D." shall be read as "Office of the Chief Engineer, Irrigation Department, Panaji" and "Chief Engineer, Irrigation Department" respectively.

This shall come into force with effect from the date of publication of Corrigendum No. 3/25-8/91--IRRG (ii) dated 26th November, 1991 in Goa Official Gazette.

By order and in the name of the Governor of Goa.

B. N. Bhat, Under Secretary to the Government of Goa (Irrigation).

Panaji, 26th November, 1991.

Corrigendum

3/25-8/91-IRRG (ii)

In partial modification of the Government Notification No. CE/PWD/1276/90-PW&UD dated 8-3-1991, the enlistment of contractors in Irrigation and Hydraulics Works Category shall be done in the Irrigation Department instead of P.W.D. with effect from the date of publication of this Corrigendum in the Goa Official Gazette. The rules for enlistment shall, however, be the same as those published under the said notification, for Irrigation and Hydraulics Works Category.

All the contractors registered in Public Works Department in Irrigation and Hydraulics Works Category shall apply for renewal of their registration, one month prior to the expiry of their existing registration in Public Works Department.

The payment of fees for fresh registration and renewal of registration shall be as per Corrigendum No. 3/25-8/91-IRRG (i) dated 26th November, 1991.

By order and in the name of the Governor of Goa.

B. N. Bhat, Under Secretary to the Government of Goa (Irrigation).

Panaji, 26th November, 1991.

Department of Labour

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Notification

25-9-88/LAB

In exercise of the powers conferred by sub-section (5) of section 1 of the payment of Wages Act, 1936 (Central Act IV of 1936) (hereinafter called the 'said Act'), the Government of Goa hereby gives three months notice of its intention to extend the provisions of the said Act to the payment of wages to all classes of persons employed in; —

(1) establishments run by any local authority--Municipal Councils, and

(2) shops and establishments as defined under the Goa, Daman and Diu Shops and Establishments Act, 1973 (Act 13 of 1974).

All objections and suggestions, if any, should be sent to the Secretary (Labour), Government of Goa, Secretariat, Panaji-Goa, within three months from the date of publication of this Notification in the Official Gazette.

By order and in the name of the Governor of Goa.

Subhash V. Elekar, Joint Secretary (Labour).

Panaji, 20th November, 1991.

Law (Legal and Legislative Affairs) Department

Notification

10-6-90/LA

The following Notification received from the Government of India/Ministry of Environment & Forests, New Delhi, is hereby published for the general information of the public.

P. V. Kadnekar, Under Secretary (Drafting).

Panaj, 1st October, 1991.

MINISTRY OF ENVIRONMENT AND FORESTS

(Department of Environment, Forests and Wildlife)

Notification

New Delhi, the 21st February, 1991

G.S.R. 93(E).—In exercise of the powers conferred by section 25 of the Environment (Protection) Act, 1986, (29 of 1986), the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules, 1986, namely: —

1. (i) These rules may be called the Environment (Protection) Second Amendment Rules, 1991.

(ii) They shall come into force on the date of their publication in the Official Gazette.

2. In the Schedule I to the Environment (Protection) Rules, 1986, after serial number 47 and the entries relating thereto the following serial numbers and entries shall be inserted, namely: —

Sl. No.	Industry	Parameter	Standards
1	2	3	4
48.	GLASS INDUSTRY	EMISSIONS	
A.	Sodalime & Borosilicate and other special Glass (Other than Lead)		
(a)	Furnace: Capacity		
	(i) Upto a product draw capacity of 60 MT/Day	Particulate matter	2.0 kg/hr
	(ii) Product draw capacity more than 60 MT/Day	-do-	0.8 Kg/Mt of product drawn
	(iii) For all capacities	Stack height	$H = 14 (Q)^{0.3}$ where Q is the emission rate of So_2 in Kg/hr & H is Stack height in meters
		Total fluorides	5.0 mg/NM^3
		NoX	Use of low NoX burners in new plants.
(b)	Implementation of the following measures for fugitive emission control from other sections: —		
	(i) Raw materials should be transported in leak proof containers.		
	(ii) Cullet preparation should be dustfree using water spraying.		
	(iii) Batch preparation section should be covered.		
B.	LEAD GLASS		
(a)	Furnace: — All Capacities	Particulate matter	50 mg/N M^3
		Lead	20 mg/N M^3

(Dust emission from furnace feeding dog house should be connected to control equipments and meet above standards.)

1	2	3	4
	(b) Implementation of the following measures for fugitive emission control from other sections: —		
	(i) Batch mixing, proportioning section and transfer points should be covered and it should be connected to control equipments to meet following standards:		
		Particulate matter	50 mg/NM³
		Lead	20 mg/NM³
	(ii) Minimum Stack Height should be 30 meter in lead glass units.		
	(c) Pot Furnace at Firozabad Furnace:	Particulte matter	1200 mg/NM³

Note: — Depending upon local environmental conditions, State/Central Pollution Control Board can prescribe more stringent standards than those prescribed above.

GLASS INDUSTRIES (For all categories)	EFFLUENTS:	
	pH	6.5—8.5
	Total Suspended solids	100 mg/L
	Oil & Grease	10 mg/L
49. LIME KILN	Stack Height	
Capacity: —		
Upto 5T/Day	— do—	
		A Hood should be provided with a stack of 30 meter height from ground level (including kiln height).
Above 5T/Day	— do—	$H=14(Q)^{0.3}$ Where Q is emission rate of So_2 in Kg/hr and H=Stack Height in meters
More than 5T/Day and upto 40T/Day	Particulate matter	500 mg/NM³
Above 40T/Day	— do—	150 mg/NM³
50. *SLAUGHTER HOUSE, MEAT & SEA FOOD INDUSTRY: —	EFFLUENTS	Concentration in mg/L
Category:		
A. Slaughter House		
(a) Above 70 TLWK	BOD_5 at 20°C	100
	Suspended Solids	100
	Oil & Grease	10
(b) 70 TLWK & below	BOD_5 at 20°C	500
B. Meat Processing		
(a) Frozen Meat	BOD_5 at 20°C	30
	Suspended Solids	50
	Oil & Grease	10
(b) Raw Meat from own Slaughter House	BOD_5 at 20°C	30
	Suspended Solids	50
	Oil & Grease	10
(c) Raw Meat from other Sources		Disposal via Screen and Septic Tank
C. Sea Food Industry	BOD_5 at 20°C	30
	Suspended Solids	50
	Oil & Grease	10

Note: — (i) TLWK — Total Live Weight Killed. (ii) In case of disposal into municipal sewer where sewage is treated the industries shall install screen and oil & grease separation units. (iii) The industries having slaughter house along with meat processing units will be considered in meat processing category as fas as standards are concerned.

*The emission standards from Boiler House shall conform to the standards already prescribed under E(P) Act, 1986 vide notification No. GSR 742(E) dated 30-8-90.

1	2	3	4	
51.	FOOD & FRUIT PROCESSING INDUSTRY:	EFFLUENTS	Concentration not to exceed -mg/L except pH	Quantum gm/MT of product
	Category:			
A.	Soft Drinks			

1	2	3	4	
	(a) Fruit based/Synthetic (More than 0.4 MT/Day) bottles and tetrapack		6.5—8.5	—
		Suspended Solids	100	
		Oil & Grease	10	
		BOD_5 at 20°C	30	
	(b) Synthetic (Less than 0.4 MT/Day)		Disposal via Septic Tank	—
	B. Fruit & Vegetables			
	(a) Above 0.4 MT/Day	pH	6.5—8.5	—
		Suspended Solids	50	
		Oil & Grease	10	
		BOD_5 at 20°C	30	
	(b) 0.1—0.4 MT/Day (10 MT/Yr)		Disposal via Septic Tank	
	C. Bakery			
	(a) Bread and Bread & Biscuit			
	(i) Continuous process (more than 20T/Day)	pH	6.5—8.5	
		BOD_5 at 20°C	200	25
	(ii) Non-continuous process (less than 20 MT/Day)		Disposal via Septic Tank	
	(b) Biscuit Production			
	(i) 10 T/Day & above	pH	6.5—8.5	
		BOD_5 at 20°C	300	35
	(ii) Below 10 T/Day		Disposal via Septic Tank	
	D. Confectioneries	EFFUENTS		
	(a) 4 T/Day and above	pH	6.5—8.5	
		Suspended Solids	50	
		Oil & Grease	10	
		BOD_5 at 20°C	30	
	(b) Below 4 T/Day		Disposal via Septic Tank	

Note: — To ascertain the category of 'unit fails' the average of daily production and waste water discharge for the preceding 30 operating days from the date of sampling shall be considered.
*The emission from the boiler house shall conform to the standards already prescribed under E(P) Act, 1986, vide Notification No. GSR 742(E), dated 30-8-90.

52.	*JUTE PROCESSING INDUSTRY:	EFFLUENTS	Concentration in mg/L except pH and Water consumption
		pH	5.5—9.0
		BOD_5 at 20°C	30
		Suspended Solids	100
		Oil & Grease	10
		Water Consumption	1.60 Cum/Ton of product produced

Note: 1. Water consumption for the Jute processing industry will be 1.5 Cum/Ton of product from January, 1992.
2. At the present no limit for colour is given for liquid effluent. However, as far as possible colour should be removed.
* Stack emissions from boiler house shall conform to the standards already prescribed under Environment (Protection) Act, 1986, vide Notification No. GSR 742(E), dated 30-8-90.

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1	2	3	4
53.	LARGE PULP & PAPER/NEWS PRINT/RAYON GRADE PLANTS OF CAPACITY ABOVE 24000 MT/ ANNUM	EFFLUENTS	Concentration in mg/L except pH and TOCL
		pH	7.0—8.5
		BOD_5 at 20°C	30
		COD	350
		Suspended Solids	50
		*TOCL	2.0 Kg/Ton of product
		Flow (Total Waste-water discharge)	
		**(i) Large Pulp & Paper	200 Cum/Ton of Paper produced
		(ii) Large Rayon Grade/ News print	150 Cum/Ton of Paper produced

*The Standards for Total Organic Chloride (TOCL) will be applicable from January, 1992.

**The standards with respect of total wastewater discharge for the large pulp and paper mills be established from 1992, will meet the standards of 100 Cum/Ton of paper produced.

1	2	3	4
54.	SMALL PULP & PAPER PAPER PLANT OF CAPACITY UPTO 24000 MT/ANNUM: CATEGORY:	EFFLUENT	
A.	*Agrobased	Total Wastewater discharge	200 cum/Ton of paper produced
B.	**Waste-paper based	—do—	75 cum/Ton of paper produced

*The agrobased mills to be established from January, 1992 will meet the standards of 150 cum/Ton of paper produced.

**The waste-paper mills to be established from January, 1992 will meet the standards of 50 Cum/Ton of paper produced.

55.	COMMON EFFLUENT TREATMENT PLANTS:	EFFLUENTS	
A.	Primary Treatment	(Inlet effluent quality for CETP)	(Concentration in mg/L)
		pH	5.5—9.0
		Temperature °C	45
		Oil & Grease	20
		Phenolic Compounds (as C. H. OH)	50
		Ammonial Nitrogen (As N)	50
		Cyanide (as CN)	2.0
		Chromium(haxavalent) (as Cr+6)	2.0
		Chromium (Total) (as Cr)	2.0
		Copper (as Cu)	3.0
		Lead (as Pb)	1.0
		Nickel (as Ni)	3.0
		Zinc (as Zn)	15
		Arsenic (as As)	0.2
		Mercury (as Hg)	0.01
		Cadmium (as Cd)	1.0
		Selenium (as Se)	0.05
		Fluoride (as F)	15
		Boron (as B)	2.0
		Radioactive Materials	
		Alpha emitters, Hc/mL	10-7
		Beta emitters, Hc/ml	10.8

Note: 1. These standards apply to the small scale industries, i.e., total discharge upto 25 KL/Day.

2. For each CETP and its constituent units, the State Board will prescribe standards as per the local needs and conditions; these can be more stringent than those prescribed above. However, in case of clusters of units, the State Boards with the concurrence of CPCB in writing may prescribe suitable limits.

	Into inland surface waters	On land for Irrigation	Into Marine Coastal areas
	(a)	(b)	(c)
Treated Effluent Quality of Common Effluent Treatment Plant	Concentration in mg/l except pH & Temperature		
pH	5.5—9.0	5.5—9.0	5.5—9.0
BOD_5 20°C	30	100	100
Oil and grease	10	10	20
Temperature	Shall not exceed 40°C in any section of the stream within 15 meters downstream from the effluent outlet.	—	45°C at the point of discharge.
Suspended Solids	100	200	(a) For process waste waters-100 (b) For cooling water effluents 10-percent above total suspended matter of inffluent cooling water
Dissolved Solids (Inorganic)	2100	2100	—
Total residual chlorine	1.0	—	1.0
Ammonical nitrogen (as N)	50	—	50
Total Kjeldahl nitrogen (as N)	100	—	100
Chemical Oxygen Demand	250	—	250
Arsenic (as As)	0.2	0.2	0.2
Mercury (as Hg)	0.01	—	0.01
Lead (as Pb)	0.1	—	1.0
Cadmium (as Cd)	1.0	—	2.0
Total chromium (as Cr)	2.0	—	2.0
Copper (as Cu)	3.0	—	3.0

	Into inland surface waters	On land for Irrigation	Into Marine Coastal areas
	(a)	(b)	(c)
Zinc (as Zn)	5.0	—	15
Selenium (as Se)	0.05	—	0.05
Nickel (as Ni)	3.0	—	5.0
Boron (as B)	2.0	2.0	—
Percent Sodium	—	60	—
Cyanide (as CN)	0.2	0.2	0.2
Chloride (as Cl)	1000	600	—
Fluoride (as F)	2.0	—	15
Sulphate ((as So4)	1000	1000	—
Sulphide (as S)	2.8	—	5.0
Pesticides	Absent	Absent	Absent
Phenolic compounds (as C_6 H_5 OH)	1.0	—	5.0

Note: All efforts should be made to remove colour and unpleasant odour as far as possible.

[No. Q. 15013/2/89-CPW]

MUKUL SANWAL, Jt. Secy.

FOOT NOTE: Principal rules published vide S. O. No. 844(E), dated the 19th November, 1986. Amending Rules published vide S. O. No. 82(E), dated the 16th February, 1987, S. O. 393 (E), dated 16th April, 1987; S.O. 443(E), dated the 28th April, 1987; S.O.64(E), dt. the 18th January, 1988; G.S.R. 919(E), dated the 12th September, 1988; S. O. 8(E), dated the 3rd January 1989; G. S. R. 918(E), dated 24th October, 1989; S. O. 914(E), dated 24th October, 1989; G. S. R 1063(E) dated 25th December, 1989; S. O. 12(E), dated 8th January, 1990 G. S. R. 54(E), dated 5th February, 1990; G. S. R. 742(E), dated 30th August, 1990 and S. O. 23(E) dated 16th January, 1991.

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